PATENT COOPERATION TREA

PCT

10/532570

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	EOD ELIDTHED See Notification	on of Transmittal of International Search Report
		A/220) as well as, where applicable, item 5 below.
LU6061/CB International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 03/11680	22/10/2003	25/10/2002
Applicant		•
		•
BASELL POLYOLEFINE GMBH		
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching transmitted to the International Bureau.	Authority and is transmitted to the applicant
	aboute 7	•
This International Search Report consist X It is also accompanied	sts of a total of sheets. by a copy of each prior art document cited in	this report
It is also accompanied	by a copy of each prior art document often in	
Basis of the report		
a. With regard to the language, the	ne international search was carried out on the	basis of the international application in the
language in which it was filed,	unless otherwise indicated under this item.	
the international search Authority (Rule 23.1(b)		of the international application furnished to this
b. With regard to any nucleotide was carried out on the basis of		ne international application, the international search
	ational application in written form.	
filed together with the i	nternational application in computer readable	form.
	to this Authority in written form.	
	to this Authority in computer readble form.	
international applicatio	subsequently furnished written sequence listi n as filed has been furnished.	
the statement that the furnished	information recorded in computer readable fo	rm is identical to the written sequence listing has been
<u>=</u>	ound unsearchable (See Box I).	•
3. Unity of invention is	lacking (see Box II).	
4. With regard to the title ,		
= `	s submitted by the applicant.	
	blished by this Authority to read as follows:	
RACEMOSELECTIVE PREP	PARATION OF ISOLABLE ANSA-MI	ETALLOCENE BIPHENOXIDE COMPLEXES
		•
•		
5. With regard to the abstract,		
the text has been esta	s submitted by the applicant. blished, according to Rule 38.2(b), by this Au the date of mailing of this international searc	thority as it appears in Box III. The applicant may, h report, submit comments to this Authority.
6. The figure of the drawings to be p	oublished with the abstract is Figure No.	
as suggested by the a	pplicant.	None of the figures.
because the applicant	failed to suggest a figure.	· —
because this figure be	tter characterizes the invention.	

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ernational Application No CT/EP 03/11680

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO7F17/00 CO8F C08F10/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07F C08F IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 02 00672 A (BRINTZINGER HANS H ;BASELL POLYOLEFINE GMBH (DE); DAMRAU ROBERT (D) 3 January 2002 (2002-01-03) the whole document		1-13
X	SCHMIDT ET AL: "photochemical isomerization of me2si-bridged zirconocene complexes. application to stereoselective synthesis of ansa-zirconocene binaphtholate stereoisomers" ORGANOMETALLICS, WASHINGTON, DC, US, vol. 16, no. 8, 15 April 1997 (1997-04-15), pages 1724-1728, XP002089634 ISSN: 0276-7333 the whole document		1-13
. •	-/		

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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O' document referring to an oral disclosure, use, exhibition or
- document published prior to the international filing date but later than the priority date claimed
- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled
- "&" document member of the same patent family

Date of the actual completion of the international search

Fax: (+31-70) 340-3016

Date of mailing of the international search report

3 February 2004

17/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Authorized officer

Rinkel, L

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.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
(WO 99 15538 A (BRINTZINGER HANS H ;DAMRAU HANS ROBERT HELLMUTH (DE); TARGOR GMBH) 1 April 1999 (1999-04-01) cited in the application the whole document	1-13	
(DAMRAU, HR. H. ET AL.: "racemo-selective synthesis of ansa-zirconocene derivatives from zirconium biphenolate complexes" ORGANOMETALLICS, vol. 20, no. 25, 2001, pages 5258-5265, XP002268871 the whole document	1-13	
	<u></u>		

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International Application No. PCT/EP 03 /11680

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10

Process for preparing racemic metallocene biphenoxide complexes

2. Claims: 11-13

Racemic metallocene biphenoxide complex and its use in olefin polymerization $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

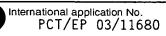
Continuation of Box I.2

Present claims 1-13 relate to an extremely large number of possible compounds, their preparation and use. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of these compounds, their preparation and use claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the racemic metallocene complexes, their preparation and use whereby "Y" equals oxygen.

Please note that e.g. claim 1 relates to "A process for preparing racemic metallocene BIPHENOXIDE complexes...", and claim 11 to "...racemic metallocene BIPHENOXIDE complex..."

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





	Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
	This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	2. X	Claims Nos.:
		because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
		See Political and Colored Political Colored Poli
)	з	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
		ernational Searching Authority found multiple inventions in this international application, as follows:
		see additional sheet
	1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all
		searchable claims.
)	2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report
	<u> </u>	covers only those claims for which fees were paid, specifically claims Nos.:
	4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	Remar	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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formation on patent family members

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Patent document cited in search report	Publication , date		Patent family member(s)	Publication date
WO 0200672	03-01-2002	DE	10030638 A1	10-01-2002
		ΑU	8578601 A	08-01-2002
•		CN	1447816 T	08-10-2003
		WO	0200672 A1	03-01-2002
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		ΑT	232538 T	15-02-2003
•		BR	9812084 A	26-09-2000
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		DΕ	59807204 D1	20-03-2003
-		WO	9915538 A1	01-04-1999
•		ΕP	1017702 A1	12-07-2000
		ES	2192791 T3	16-10-2003
		JP	2001517673 T	09-10-2001
		US	6262286 B1	17-07-2001